



Infosafe No™	1CH6M	Issue Date : August 2019	RE-ISSUED by CHEMSUPP
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Product Name : **SODIUM NITRATE**

Classified as hazardous

**1. Identification**

<b>GHS Product Identifier</b>	SODIUM NITRATE	
<b>Company Name</b>	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)	
<b>Address</b>	38 - 50 Bedford Street GILLMAN SA 5013 Australia	
<b>Telephone/Fax Number</b>	Tel: (08) 8440-2000 Fax: (08) 8440-2001	
<b>Emergency phone number</b>	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)	
<b>Recommended use of the chemical and restrictions on use</b>	Oxidising agent; solid rocket propellants; fertilizer; flux; glass manufacture; pyrotechnics; clinical reagent (parasites); refrigerant; matches; dynamites; black powders; manufacturing sodium salts and nitrates; manufacture of nitric acid; dyes; pharmaceuticals; aphrodisiac; colour fixative and preservative in cured meats, fish, etc.; enamel for pottery; modifying burning properties of tobacco and laboratory reagent.	
<b>Other Names</b>	<b>Name</b>	<b>Product Code</b>
	SODIUM NITRATE LR	SL098
	SODIUM NITRATE AR	SA098
	Nitrate of soda, Sodium saltpeter	

**Other Information**

Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

**2. Hazard Identification**

<b>GHS classification of the substance/mixture</b>	Oxidizing Solids: Category 3 Skin Corrosion/Irritation: Category 2
<b>Signal Word (s)</b>	WARNING
<b>Hazard Statement (s)</b>	H272 May intensify fire; oxidiser. H319 Causes serious eye irritation.
<b>Pictogram (s)</b>	Flame over circle, Exclamation mark



<b>Precautionary statement – Prevention</b>	P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P211 Do not spray on an open flame or other ignition source. P221 Take any precaution to avoid mixing with combustibles. P264 Wash thoroughly after handling.
<b>Precautionary statement – Response</b>	P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. P370+P378 In case of fire: Use FLOODING QUANTITIES OF WATER. DO NOT use dry chemical, CO2 or foam for extinction.
<b>Precautionary statement – Storage</b>	P403+P233 Store in a well-ventilated place. Keep container tightly closed.
<b>Precautionary statement – Disposal</b>	P405 Store locked up. P501 Dispose of contents/container to an approved waste disposal plant.



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**3. Composition/information on ingredients**

Chemical Solid

## Characterization

## Ingredients

Name	CAS	Proportion	Hazard Symbol	Risk Phrase
Sodium Nitrate	7631-99-4	100 %		

**4. First-aid measures**

**Inhalation** If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

**Ingestion** Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

**Skin** Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. Seek medical advice if effects persist.

**Eye contact** Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.

**First Aid Facilities** Maintain eyewash fountain and safety shower in work area.

**Advice to Doctor** Treat symptomatically based on judgement of doctor and individual reactions of the patient.

**Other Information** For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

**5. Fire-fighting measures**

**Hazards from Combustion Products** May liberate toxic fumes in fire (sodium and nitrogen oxides).

**Specific Methods** Small fire: USE FLOODING QUANTITIES OF WATER. DO NOT use dry chemical, CO2 or foam. If safe to do so, move undamaged containers from the fire area. DO NOT move cargo if cargo has been exposed to heat.  
Large fire: Flood fire area with water from a protected position.  
Cool containers with flooding quantities of water until well after the fire is out. If impossible, withdraw from area and let it burn. Avoid getting water inside the containers; a violent reaction may occur. Dam fire control water for later disposal.

**Specific hazards arising from the chemical** Will accelerate burning when involved in a fire. May explode on heating, shock, friction or contamination. Some will react explosively with hydrocarbons (fuels). May ignite combustibles (wood, paper, clothing, etc). Fire may produce irritating, poisonous, and/or corrosive gases. Containers may explode on heating. Runoff may create fire or explosion hazard.

**Hazchem Code** 1Z

**Precautions in connection with Fire** Wear SCBA and chemical splash suit. Structural firefighter's uniform will provide limited protection.

**6. Accidental release measures**

**Spills & Disposal** Do not contaminate. Keep combustibles (wood, paper, clothing, oil, etc.) away from the spilled material. Do NOT touch damaged containers or spilled material unless wearing appropriate protective clothing. Use water spray to knock down vapours or divert vapour clouds. Prevent entry into waterways, drains or confined areas. Prevent exposure to heat.  
Dry Spill: Use clean non-sparking tools to transfer material to a clean, dry plastic container and cover loosely. Move container from spill area.  
Small Liquid Spill: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place in a loosely-covered container for later disposal.  
Large Liquid Spill:  
SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.

**Personal Precautions** Evacuate the area of all non-essential personnel. Avoid inhalation, contact with skin, eyes and clothing. Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

**Personal Protection** Wear protective clothing specified for normal operations (see Section 8)

**7. Handling and storage**

**Precautions for Safe Handling** Avoid generation or accumulation of dusts. Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. Wash hands and face thoroughly after working with material. Use in well ventilated areas away from all ignition sources. In case of insufficient ventilation, wear



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**Conditions for safe storage, including any incompatibilities** Suitable respiratory equipment. Store in a cool, dry place. Store in well ventilated area. Store away from combustible materials. Store away from acids. Keep containers securely sealed and protected against physical damage. Keep away from heat and other sources of ignition. This product should not be stored on wooden floors.

**Corrosiveness** Empty containers may be hazardous.

**Storage Regulations** Not corrosive in presence of glass.

Refer Australian Standard AS 4326 - 1995 'The storage and handling of oxidizing agents'.

**8. Exposure controls/personal protection**

**Other Exposure Information** No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m<sup>3</sup>. All atmospheric contamination should be kept to as low a level as is workable.

**Appropriate engineering controls** In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. These methods should be used in preference to personal protective equipment.

**Respiratory Protection** Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

**Eye Protection** The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

**Hand Protection** Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments.

**Personal Protective Equipment** Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.

**Footwear** Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

**Body Protection** Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

**Hygiene Measures** Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Other Information** Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.

**9. Physical and chemical properties**

**Form** Solid

**Appearance** White granules or powder, or colourless, transparent crystals.

**Odour** Odourless.

**Melting Point** 308 °C

**Boiling Point** 380 °C

**Solubility in Water** Soluble

**Solubility in Organic Solvents** Soluble in glycerol. Slightly soluble in alcohol, acetone, glycerol, ammonnia liquid.

**Specific Gravity** 2.26

**pH** pH 5.5 - 8.0 (5% solution).

**Flammability** Not combustible but assists combustion of other substances.

**Explosion Properties** Explodes @ 537 °C

**Molecular Weight** 84.99



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**Other Information** Saline, slightly bitter taste.**10. Stability and reactivity****Chemical Stability** Stable under normal use conditons.**Conditions to Avoid** Shock sensitive. Heat, flames, ignition sources and incompatibles.**Incompatible Materials** Aluminium oxide, boron phosphide, combustible substances, carbon, cyanides, finely powdered metals, jute, organic materials, powder aluminium, sodium hypophosphite, sodium thiosulfate, Strong reducing agents, strong acids, sulfur plus charcoal, and wood,**Hazardous Decomposition Products** Oxides of nitrogen.**Possibility of hazardous reactions** Reacts with acids librating toxic fumes of nitrogen dioxide. Contact with the following may cause an explosion: barium rhodanide, boron phosphide, cyanides, sodium thiosulfate, sodium hypophosphite, sulfur plus charcoal, powdered aluminium and aluminium oxide. Fibrous organic material such as jute, wood, cellulosic materials can be highly combustible by nitrate impregnation.**Hazardous Polymerization** Will not occur.**11. Toxicological Information****Acute Toxicity - Oral** LD50 (rat): 3430 mg/kg (OECD Test Guideline 401)**Ingestion** May cause gastroenteritis and abdominal pains. Symptoms may include mucosal irritations, nausea, diarrhoea, vomiting, dizziness, fatiuge,, headaches, incorrodination, bloody diarrhea, convulsions, collapse and cyanosis due to the lack of oxygen in the blood (bluish-coloured skin). Small repeated oses may cause headache and mental impairment. Rare cases of nitrates being converted to the more toxic nitrates have been reported, mostly with infants.**Inhalation** Inhalation of dust may cause irritation to the mucous membranes and the respiratory tract. Symptoms may include coughing and shortness of breath.**Skin** Irritating to skin. Symptoms include redness, itching and pain.**Eye** Irritating to eyes. Symptoms include redness, itching and pain.**Carcinogenicity** No evidence of carcinogenic properties.**Reproductive Toxicity** Experiments have shown reproductive toxicity effects on laboratory animals.**Chronic Effects** Small repeated doses may cause headache and mental impairment. Under some circumstances methemoglobinemia occurs in individuals when the nitrate is converted by bacteria in the stomach to nitrite. Nausea, vomiting, dizziness, rapid heart beat, irregular breathing, convulsions, coma and death can occur should this conversion take place. After absorption of large quantities: methemoglobinemia with headache, cardiac arrhythmia, drop in blood pressure, dyspnoea, and spasms, key symptom: cyanosis (blue colouration of the blood).**Mutagenicity** No evidence of mutagenic properties.**12. Ecological information****Persistence and degradability** Methods for the determination of biodegradability are not applicable to inorganic substances.**Mobility** Likely to be mobile due to its solubility.**Bioaccumulative Potential** No bioaccumulation is to be expected (log P(o/w) <1.0).**Environmental Protection** This chemical has no biological oxygen demand, and it will not cause oxygen depletion in aquatic systems.

This chemical is not likely to bioconcentrate.

**13. Disposal considerations****Disposal Considerations** Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.**14. Transport information****Transport Information** Dangerous goods of Class 5.1 (Oxidizing Agent) are incompatible in a placard load with any of the following:  
Class 1, Class 2.1, Class 2.3, Class 3, Class 4, Class 5.2, Class 7, Class 8, Fire risk substances and



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<b>U.N. Number</b>	Combustible liquids. 1498
<b>UN proper shipping name</b>	SODIUM NITRATE
<b>Transport hazard class(es)</b>	5.1
<b>Hazchem Code</b>	1Z
<b>Packaging Method</b>	3.8.5.1
<b>Packing Group</b>	III
<b>EPG Number</b>	5A1
<b>IERG Number</b>	31

**15. Regulatory information**

<b>Regulatory Information</b>	Listed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
<b>Poisons Schedule</b>	Not Scheduled

**16. Other Information**

<b>Literature References</b>	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010. Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'. Safe Work Australia, 'Hazardous Chemical Information System, 2005'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.
<b>Contact Person/Point</b>	Paul McCarthy Ph. (08) 8440 2000 <b>DISCLAIMER STATEMENT:</b> All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. Chem-Supply accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.
<b>Empirical Formula &amp; Structural Formula</b>	Na NO3 ...End Of MSDS...

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